Calibration Database Applications

- Database
  - Almost all the databases are cut into prod. except Calorimeter.
- Database Servers
  - All servers have been built with DAN.
  - Almost all servers are running against prod. except Calorimeter.
- c++ clients (calibraters)
  - Almost all calibraters are built in D0reco p13.01 or later release except Calorimeter.
  - Memory foot prints improved for SMT. Needs work on CFT.
- Data transfer from Online DB
  - Up to date for almost all sub-systems except Calorimeter.

Calibration Database Applications

- Remaining Tasks
  - Graphical viewer
  - Performance improvements
    - Memory usage
    - Speed

Production Server Needs

- Two sets of calibration constants take up 800 MB of memory.
- It takes 10 min to retrieve one set of SMT constants from DB and deliver to a client.
- It takes 50 sec to deliver to a client with data in cache.
- SMT server will be hit every 30 sec.
- Assume that 10 different (but fixed) sets of calibration constants are requested at any given time.

- At least 5 nodes with each having 1GB of memory.
- A scalable system that can address multiple servers.

Production Server Deployment Plans

- Production servers for farm run on d0dbsrv1
  - Memory: 900 MB, Swap space:1 GB
  - 1 set of calibration servers with 2 sets of constants fill up memory.
  - 4 sets of constants fill up Swap space
- Where should production servers for the rest run?
  - Four more Linux nodes with some traffic control
  - A multi-cpu workstation with large memory
  - We need these Dec 1, 2002.
- Host servers for off-cite proxy?
  - Where do they run?
  - How many do we need?
    - Each Offsite farm could process different set of runs.